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**Claims**

1. Use of 3-deazaadenosine and analogs thereof for the manufacture of a medicament for the prevention and/or treatment of vascular diseases or graft rejection.
2. Use of 3-deazaadenosine and analogs thereof for the manufacture of a medicament for the prevention and/or treatment of diseases associated with expression of adhesion molecules ICAM-1 and VCAM-1 in endothelial cells.
3. Use according to claim 1 or 2 for the manufacture of a medicament for the prevention and/or treatment of atherosclerosis.
4. Use according to claim 3 for the manufacture of a medicament for the prevention and/or treatment of graft atherosclerosis in transplanted organs.
5. Use according to claim 4 for the manufacture of a medicament against atherosclerosis in transplanted hearts.
6. Use according to any one of the preceding claims for reducing rejection of transplanted organs.
7. Use according to claim 6 for reducing rejection of transplanted hearts.
8. Use according to any one of the preceding claims for the manufacture of a medicament for the prevention and/or treatment of transplant vasculopathy.

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9. Use according to any one of the preceding claims for the manufacture of a medicament for the prevention of in-stent restenosis.
- 5 10. Use according to any one of the preceding claims for the manufacture of a medicament for reducing the level of homocysteine.
11. Use according to any one of the preceding claims in combination with an immunosuppressive medicament.
- 10 12. Use according to claim 11 in combination with cyclosporine.
13. Use according to any one of the preceding claims in combination with a cholesterol-reducing agent.
- 15 14. Use according to any one of the preceding claims wherein the medicament is orally administered.
- 20 15. Use according to any one of the preceding claims wherein the dose is in the range of from 0.1 to 500 mg/kg body weight per day.
16. Method of treating or preventing vascular diseases or graft rejection comprising administering to a subject in need thereof an efficient amount of 3-deazaadenosine or an analog thereof.
- 25 17. Method of treating or preventing diseases associated with expression of adhesion molecules ICAM-1 and VCAM-1 in endothelial cells comprising administering to a subject in need thereof an efficient amount of 3-deazaadenosine or an analog thereof.

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